Acta Zootaxonomica Sinica, 31 (2): 426– 429 (Apr., 2006) ISSN 1000-0739
动物分类学报

A NEW CHINESE RECORD GENUS (DIPTERA, PHORIDAE), WITH DESCRIPTIONS OF TWO NEW SPECIES

LIU Guang-Chun[1], FANG Hong[2], ZHU Wei[1]
1. *College of Biological and Environmental Engineering, Shenyang University, Shenyang* 110044, *China*
2. *College of Plant Protection, Shenyang Agricultural University, Shenyang* 110161, *China*

Abstract The genus *Anevrina* Lioy is reported for the first time from China. Two new species, *A. microcilia* Liu *et* Fang, sp. nov. and *A. glabrata* Liu *et* Zhu, sp. nov., are described and illustrated.
Key words Diptera, Phoridae, *Anevrina*, new species, China.

The genus *Anevrina* was established by Lioy in 1864 with the type species *A. urbana* (Meigen, 1830). Schmitz (1941) and Disney (1983) reported five Palaearctic species. Borgmeier (1963) recorded nine Nearctic species. Beyer (1958) described three species from Burma. Michailovskaya (2004) reported three species from the Russian Far East. Brown (1994) reviewed the genus and gave a key to the species of the world. Up to now, there are 12 species recorded over the world. In the present paper, *Anevrina* Lioy is reported for the first time from China. Two new species, *A. microcilia* and *A. glabrata* are described and illustrated. The type specimens are deposited in College of Biological and Environmental Engineering, Shenyang University.

Anevrina **Lioy**

Anevrina Lioy, 1864. Atti. Ist. Veneto Sci. 10: 77. Type species: *Phora urbana* Meigen, 1830.

Diagnosis. Size large, but variable. Frons broader than long, median furrow indistinct or lacking. Supra-antennal bristles reclinate, other bristles on frons in three rows. Third antennal segment small and globose. Arista pre-apical and dorsal in position, bare or shortly pubescent. Palpus of moderate size. Proboscis short and broad. Thorax with 2 dorsocentral bristles. Scutellum with 4 bristles. Mesopleura bare. Legs slender. All tibiae with isolated bristles. Hind tibia without dorsal hair palisades. Costa long, cilia short; vein Rs with several hairs along dorsal face. Abdominal tergite 6 elongate; tergite 5 reduced in some species; tergites 2-3 with bristles laterally. Venter of female generally bare or shortly pubescent. Hypopygium large, asymmetrical, hairy; surstylus of unequal length. Anal tube short.

Distribution. Holarctic and Oriental Region.

Anevrina microcilia **Liu** et **Fang, sp. nov.** (Figs. 1-7)

Male. Body length 2.75 mm, mainly dark brown, except legs, which are yellowish brown. Third antennal segment and palpus of normal size, not enlarged. Wing 2.5 mm in length; costal index 0.63, costal ratio 8.8∶3.5∶1.0, vein M1 not sinuate at base, costal cilia 0.05 mm; vein Rs with 17 very short and fine hairs (0.02 mm in length) along its dorsal face. Halter yellow. Fore tibia with 1 dorsal bristle at mid length. Mid tibia with 1 dorsal and 1 anterior bristle near base, 1 pre-apical anterior bristle and 1 long ventral spur at apex. Hind tibia with 2 anterior bristles, of which one is near base and another is at apex, and a small anterior bristle at apex and a pair of long ventral spurs; hind tibia covered with very strong hairs at posterior surface. Male hypopygium dark brown, with some strong hairs at edge; surstylus slender and long.

Female: unknown.

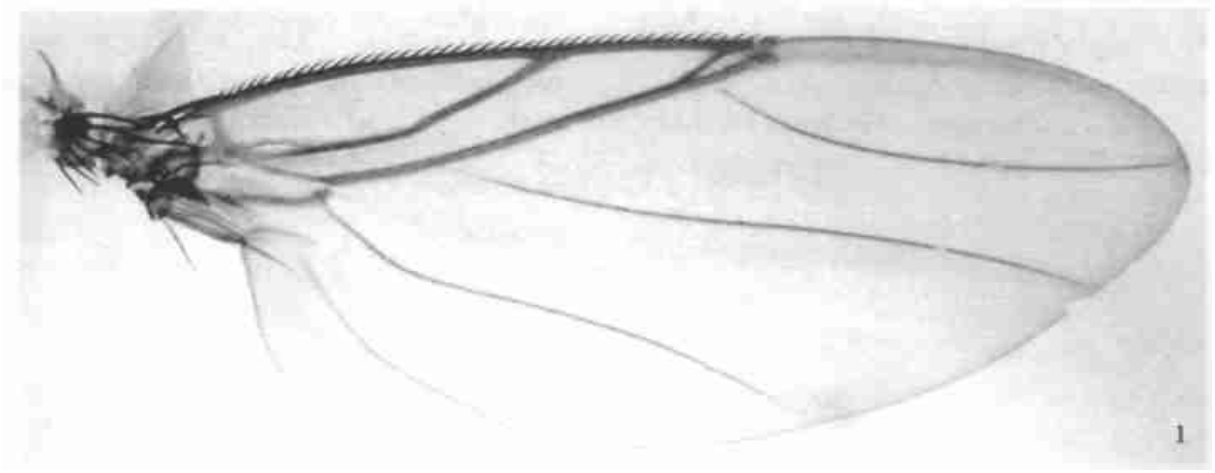
Holotype ♂, China, Mt. Jianfeng (800 m), Hainan, 18 May 2004, LIU Guang-Chun.

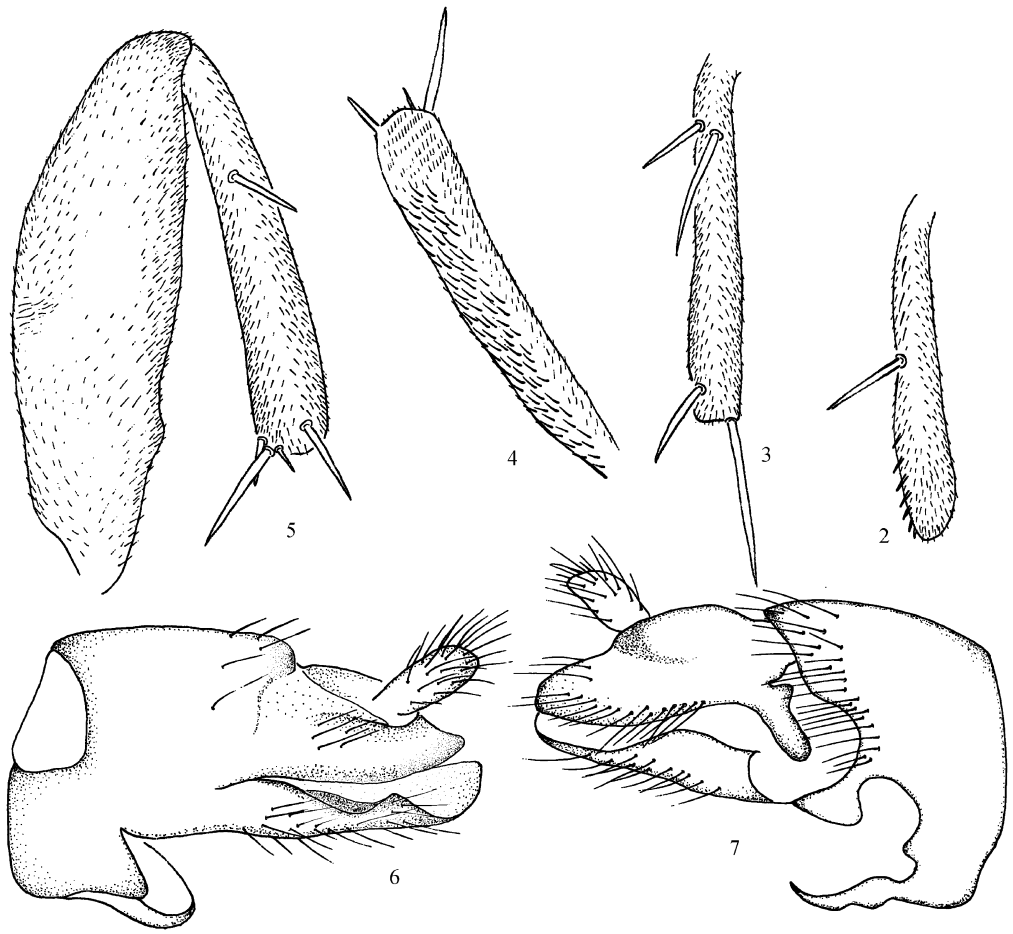
Remarks. This species is similar to *A. unispinosa*, but differs from the latter in vein Rs with very fine hairs and surstylus slender.

Anevrina glabrata **Liu** et **Zhu, sp. nov.** (Figs. 8-14)

Male. Body length 2.55 mm, entirely dark brown, except legs, which are yellowish brown. Third antennal segment dark brown with normal hairs. Palpus light brown with 9 short bristles at apical half.

The research was supported by the National Natural Science Foundation of China (30270187).
Received 10 Oct. 2005, accepted 11 Jan. 2005.





Figs. 1-7. *A. microcilia* Liu *et* Fang, sp. nov. 1. Wing. 2. Fore tibia. 3. Mid tibia. 4-5. Hind femur and tibia. 6-7. Hypopygium (left and right lateral view).

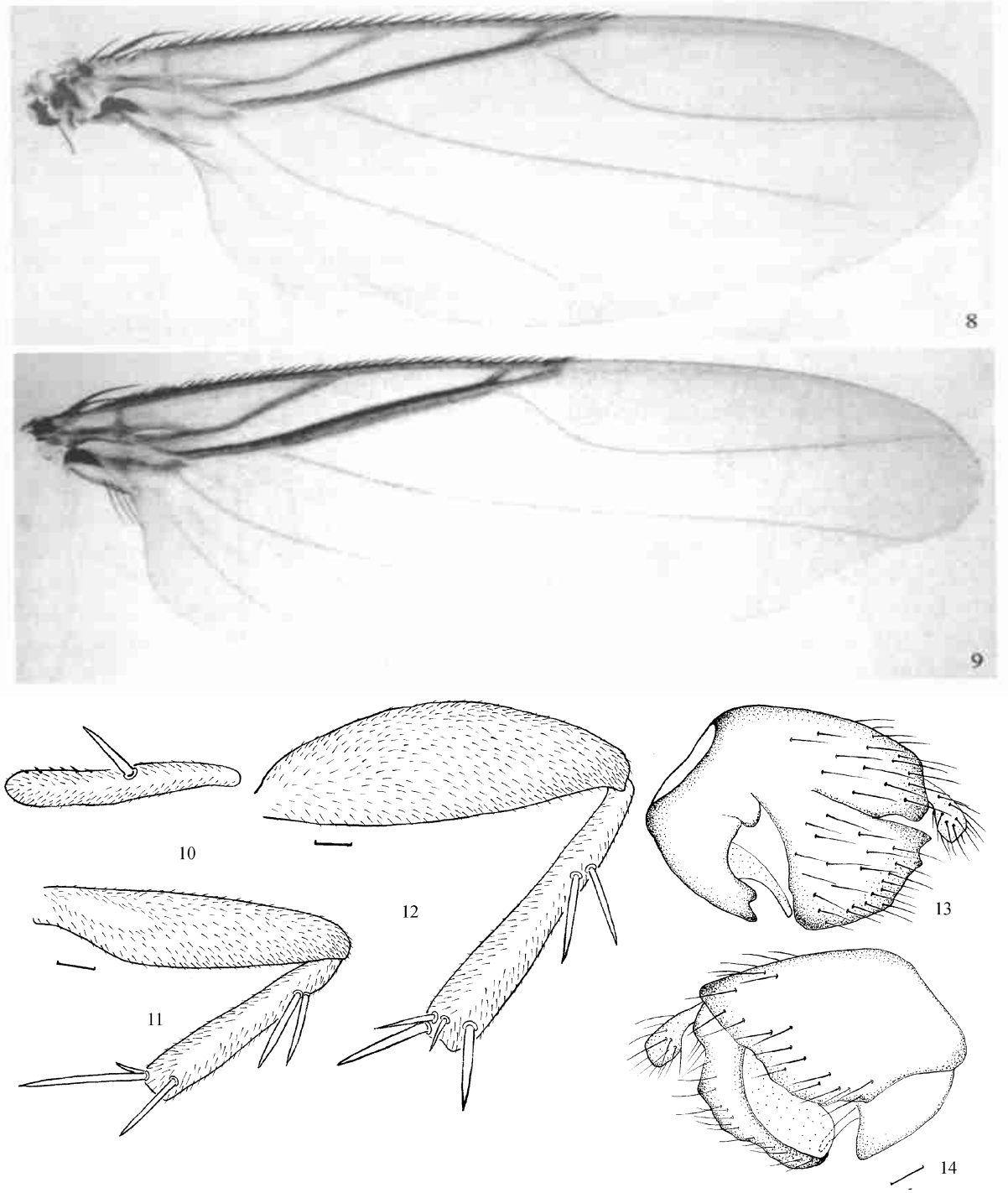
Wing 2.3 mm in length; costal index 0.56, costal ratio 6∶5∶1, costal cilia 0.07 mm; vein Rs with 19 short hairs along its length; vein M_1 sinuate at base. Halter yellow. Fore tibia with 1 dorsal bristle at mid length. Mid tibia with 1 dorsal and 1 anterior bristle near base, and 1 pre-apical anterior bristle. Hind tibia with 2 anterior bristles, of which one is near base and another is at apex. Mid femur on anterior surface with a egg-formed and naked patch; mid tibia with a small anterior bristle at apex and a pair of long ventral spurs. Male hypopygium dark brown, with some strong hairs at edge; left surstylus triangular.

Female. Body length 3.9 mm. Antenna black brown, palpus yellowish brown. Proboscis slightly elongate. Labrum very developed. Abdominal tergites black, but tergites 3-5 dark brown; tergites 4-6 with short bristles, which are stronger at lateral sides. Venter light brown. Wing 3.9 mm in length. Costal

index 0.58, costal ratios 3.5∶2.8∶1.0, costal cilia 0.10 mm; vein Rs slightly swollen and with about 38 hairs along its length.

Holotype ♂, China, Zhangye, Gansu, 16 May 2004, FANG Hong. Paratype 1 ♀, same data as holotype.

Remarks. The new species differs from all members of the genus by a naked patch on anterior surface of mid femur of male.



Figs. 8-14. *Anevrina glabrata* Liu *et* Zhu, sp. nov. 8. Wing (male). 9. Wing (female). 10. Fore tibia. 11. Mid tibia. 12. Hind femur and tibia. 13-14. Hypopygium (left and right lateral view).

REFERENCES

Beyer, E. M. 1958. Die ersten Phoriden von Burma (Diptera: Phoridae). *Soc. Sci. Fenn. Comm. Biol.*, 18: 1-72.

Borgmeier, T. 1963. Revision of the North American Phorid flies. Part I. The Phorinae, Aenigmatiinae and Metopininae, except *Megaselia*. *Stud. Ent.*, 6: 1-256.

Brown, B. V. 1994. Review of the species of *Anevrina* Lioy (Diptera: Phoridae), with a new species and a revised world key. *Entomol.*

Probl., 25 (2): 1-10.
Disney, R. H. L. 1983. Scuttle flies-Diptera. Phoridae (except *Megaselia*). *Handb. Id. Brit. Ins.*, 10 (6): 1-81.
Michailovskaya, M. 2004. Scuttle flies (Diptera, Phoridae) of the Far East of Russia. Vladivostok, Dalnauka. P. 150.
Schmitz, H. 1941. Phoridae. *In*: Lindner (ed.), Die Fliegen der Palaearktischen Region. Lief. 141. E. Schweizerbart' sche Verlagsbuchhandlung. Stuttgart. pp. 65-128.

中国新纪录属——脉蚤蝇属及二新种记述 (双翅目, 蚤蝇科)

刘广纯[1] 方 红[2] 朱 威[1]
1. 沈阳大学生物与环境工程学院 沈阳 110044
2. 沈阳农业大学植物保护学院 沈阳 110161

摘 要 报道了中国新纪录属脉蚤蝇属 *Anevrina* Lioy, 并记述该属 2 新种, 微毛脉蚤蝇 *A. microcilia* Liu *et* Fang, sp. nov. 和裸斑脉蚤蝇 *A. glabrata* Liu *et* Zhu, sp. nov.。微毛脉蚤蝇与 *A. unispinosa* (Zetterstedt) 相似, 但前者 Rs 脉的细毛极弱, 尾器侧尾叶细长; 裸斑脉蚤蝇以中足腿节前表面的长卵形裸斑区别于本属其它种。模式标本存于沈阳大学生物与环境工程学院。

关键词 双翅目, 蚤蝇科, 脉蚤蝇属, 新种, 中国.
中图分类号 Q969.44